Date: Mon, 25 Apr 94 04:30:35 PDT

From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>

Errors-To: Ham-Space-Errors@UCSD.Edu

Reply-To: Ham-Space@UCSD.Edu

Precedence: Bulk

Subject: Ham-Space Digest V94 #105

To: Ham-Space

Ham-Space Digest Mon, 25 Apr 94 Volume 94 : Issue 105

Today's Topics:

ANS-113 BULLETINS

High Altitude Balloon Flight in Denver Postponed Navstar GPS Constellation Status (94-04-23) Satellites without beams Weather Sat fregs.

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Sun, 24 Apr 1994 19:33:25 MDT

From: ihnp4.ucsd.edu!library.ucla.edu!psgrain!nntp.cs.ubc.ca!alberta!ve6mgs!

usenet@network.ucsd.edu Subject: ANS-113 BULLETINS To: ham-space@ucsd.edu

SB SAT @ AMSAT \$ANS-113.01 WDOE ATTENDS JAMSAT SYMPOSIUM

HR AMSAT NEWS SERVICE BULLETIN 113.01 FROM AMSAT HQ SILVER SPRING, MD APRIL 24, 1994
TO ALL RADIO AMATEURS BT

BID: \$ANS-113.01

WDOE Attends JAMSAT Symposium

Jim White (WD0E) reports the annual JAMSAT Symposium was held in Tokyo on 27-MAR-94. Jim attended representing AMSAT-NA and presented a paper on

MICROSAT construction and operation, the Deep Space Exploration Society (DSES) radio telescope project at Table Mountain near Boulder, CO, and the high altitude balloon experiments of the Edge of Space Sciences (EOSS) group. The day long symposium included presentations on the construction and use of quadrifiler helices, a version of the MICROSAT ground station software implemented in Japanese, and several presentations regarding Phase-3D. One of the Phase-3D presentations included a live demonstration of the prototype camera and electronics for the SCOPE project that will provide imaging capability aboard the satellite. Jim reports he was particularly impressed by the progress on SCOPE and the demonstration of the capabilities of the camera and electronics. Presenters included JA2PKI, JR1SWB, JM3MAJ, JA0FKM and JH7CKF. An award was presented to Sumio Nakane (JH3BJN) for achieving satellite DXCC using only a four element antenna for 2M, a most impressive accomplishment.

The evening prior to the Symposium, JAMSAT held a celebration of their 20th anniversary. Jim reports the hospitality was outstanding with great international camaraderie and a good deal of discussion about satellite construction and operation. Jim said he was particularly grateful for the hospitality and translation services of Sumio Nakane, Miki Nakayama, and Tak Okamoto.

AMSAT-NA congratulates JAMSAT on its 20th anniversary!

[The AMSAT News Service (ANS) would like to thank WD0E for this bulletin item. WD0E can be reached at his INTERNET address of wd0e@amsat.org.]

/EX
SB SAT @ AMSAT \$ANS-113.02
UNAMSAT STATUS REPORT

HR AMSAT NEWS SERVICE BULLETIN 113.02 FROM AMSAT HQ SILVER SPRING, MD APRIL 24, 1994
TO ALL RADIO AMATEURS BT
BID: \$ANS-113.02

UNAMSAT Status Report

David Liberman (XE1TU) project manager for UNAMSAT at the Autonomous University of Mexico, is resting at home recovering from hepatitis.

Meanwhile according to Hector Sosa, chief software engineer for UNAMSAT, the entire student group that has been working on the construction project of their UNAMSAT-1 MICROSAT for about two years, recently obtained their ham tickets after they all took the exam for their amateur radio licenses and have now received their call-signs. The new licensees are:

Jose Garcia XE0IKQ Juan Zavala XE0MMF Hector Rojas XEOLFD
Gabriel Garcia Gama XEOJMC
Saul de la Rosa Nieves XEORAI
Eloy Martinez XEOIKZ
Carlos Wallenius XEOJPM

Those who might want to wish XE1TU a speedy recover may send cards to:

David Liberman (XE1TU)
Bosque de Sayula #22
La Herradura, Estado de Mexico
C.P. 05278
Mexico

[The AMSAT News Service would like to thank WDOE for this bulletin item.]

/EX
SB SAT @ AMSAT \$ANS-113.03
AMSAT-UK CALL FOR PAPERS

HR AMSAT NEWS SERVICE BULLETIN 113.03 FROM AMSAT HQ SILVER SPRING, MD APRIL 24, 1994
TO ALL RADIO AMATEURS BT BID: \$ANS-113.03

AMSAT-UK Colloquim Call For Papers

The ninth AMSAT-UK Colloquium will be held July 28-31 at the University of Surrey in Guildford, Surrey, England. This year's colloquium will be divided into four primary topic areas: spacecraft engineering, future space missions, groundstation and spacecraft operations and associated amateur space activities. Papers falling into these categories are sought for the event. Authors should submit abstracts to arrive no later than May 10, 1994 for consideration for this year's event with full paper submissions due by June 10, 1994. Authors will be notified of paper acceptance by June 1. Abstracts should be sent to:

Doug Loughmiller, GOSYX
AMSAT-UK Colloquium Programme Chairman
University of Surrey
Centre for Satellite Engineering Research
Guildford, Surrey
GU2 5XH
England

Submissions can also be made to the program chairman via fax on +44 0483 259503 or via the Internet to: D.loughmiller@ee.surrey.ac.uk

Abstracts and papers should only be sent to the addresses listed above.

The annual AMSAT-UK Colloquium is the largest international gathering of amateur satellite enthusiasts and experts in the world and has established a high standard of quality presentations on topics relevant to the amateur satellite community. Organiser's of this year's event would welcome all contributions of program material covering the vast scope of the amateur satellite program as it exists in 1994. The ninth AMSAT-UK Colloquium promises to be the most informative and entertaining event yet. We look forward to your participation in this year's Colloquium. See you in Surrey!

/EX
SB SAT @ AMSAT \$ANS-113.04
AO-13 OPS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 113.04 FROM AMSAT HQ SILVER SPRING, MD APRIL 24, 1994
TO ALL RADIO AMATEURS BT

BID: \$ANS-113.04

Current AMSAT Operations Net Schedule For AO-13

AMSAT Operations Nets are planned for the following times. Mode-B Nets are conducted on AO-13 on a downlink frequency of 145.950 MHz. If, at the start of the OPS Net, the frequency of 145.950 MHz is being used for a QSO, OPS Net enthusiasts are asked to move to the alternate frequency of 145.955 MHz.

Date	UTC	Mode	Phs	NCS	Alt NCS
30-Apr-94	2130	В	176	W90DI	VE2LVC
09-May-94	0000	В	175	W5IU	WA5ZIB
14-May-94	1700	В	167	WA5ZIB	W5IU
21-May-94	2130	В	185	VE2LVC	W90DI

Any stations with information on current events would be most welcomed. Also, those interested in discussing technical issues or who have questions about any particular aspect of OSCAR statellite operations, are encouraged to join the OPS Nets. If neither of the Net Control Stations show up, any participant is invited to act as the NCS.

Slow Scanners are invited to join the SSTV sessions on AO-13. The frequency is 145.955 MHz. The net meets at 45 minutes before Mode S, and on Mode B following Mode S on Saturdays and Sundays. Join those sessions or convey your wishes for other SSTV skeds to wb6llo@amsat.org, and he will coordinate your efforts.

/EX
SB SAT @ AMSAT \$ANS-113.05
AMSAT BOOTH AT DAYTON

HR AMSAT NEWS SERVICE BULLETIN 113.05 FROM AMSAT HQ SILVER SPRING, MD APRIL 24, 1994 TO ALL RADIO AMATEURS BT

BID: \$ANS-113.05

Look For The AMSAT Booth At The Dayton Hamvention Next Weekend

For those of you who are going to be at Dayton, we look forward to seeing you. The AMSAT booth is in the same spot as last year, 445 - 448.

AMSAT will be holding three sessions during the weekend. On Friday at 1:00 PM in Room 1, "Getting Stated on the Satellites, Including the Packet Birds." This will be moderated by Keith Baker KB1SF. There are two sessions on Saturday, both in Room 5. AT 1:00 PM the SAREX session features several astronauts plus Roy Neal (K6DUE). And at 3:15 PM, learn all about the progress on Phase 3D from Dick Jansson WD4FAB, our VP for Engineering. Dick is working very closely with all the various individuals and groups participating in the construction of the satellite and will bring us up to date on how everything is going.

This being the 10th anniversary of the first "Ham in Space" and the 25th anniversary of the founding of AMSAT, this is a very big year for us. Try to participate in as many of the AMSAT-related functions as you can.

We will be holding an informal dinner and get-together Friday evening. Come by the booth after the Hamvention opens Friday noon and sign up. The restaurant can accommodate only those who sign up.

Communications

The Upper Valley Radio Club in Fairborn has graciously invited us to use their two repeaters while we are in the area. The 2 meter one is on 145.41 (-) and the 70 cm machine is on 442.375 (+). Both are located on a water tower not more than a half mile from the Homewood Suites, where many AMSATers are staying. So, handi-talkies on low power ought to work nicely in that area.

Of course, DARA will run their usual talk-in on 146.94 (-). If you can get through the mob, they do a good job of providing directions.

Around the Hara Arena, and at other locations where we need to communicate :via simplex, AMSAT will use 145.55. I am sure that it won't be clear, but no 2 meter frequency is clear during Hamvention. For those with 70 cm HTs, I suggest 438.00. Mine seems to work there.

I understand from Keith Baker KB1SF, who lives in the Dayton area, that road construction in and around Dayton is particularly troublesome this

year. I-75 is reported to be torn up, and down to one lane; BOTH north and south of Needmore Road (the main way to the arena). Also, I-675 north and south are torn up, and down to one lane, in spots. This is the route from I-70 down to the Hoomwood Suites in Fairborn, where most of us will be staying. So, wherever you're going around Dayton, give yourself plenty of time.

Travel safely and we'll see you next week!

73.

Bill Tynan (W3X0) AMSAT-NA President

/EX

SB SAT @ AMSAT \$ANS-113.06 WEEKLY OSCAR STATUS REPORTS

HR AMSAT NEWS SERVICE BULLETIN 113.06 FROM AMSAT HQ SILVER SPRING, MD APRIL 24, 1994 TO ALL RADIO AMATEURS BT BID: \$ANS-113.06

Weekly OSCAR Status Reports: 23-APR-94

AO-13: Current Transponder Operating Schedule:

M QST *** AO-13 TRANSPONDER SCHEDULE *** 1994 Apr 07-Jul 11

Mode-B : MA 0 to MA 170 | Mode-BS : MA 170 to MA 218 |

Mode-S : MA 218 to MA 220 | <- S beacon only

Mode-S : MA 220 to MA 230 | <- S transponder; B trsp. is OFF

Mode-BS : MA 230 to MA 250 | Blon/Blat 230/-5

Mode-B : MA 250 to MA 256 |

Omnis : MA 250 to MA 120 | Move to attitude 180/0, Jul 11

[G3RUH/DB2OS/VK5AGR]

FO-20: The following is the current schedule for transponder operations: ANALOG MODE:

20-Apr-94 7:35 -to- 27-Apr-94 7:55 UTC 11-May-94 6:54 -to- 18-May-94 7:20 UTC Digital mode: Unless otherwise noted above.

[Kazu Sakamoto (JJ1WTK) qga02014@niftyserve.or.jp]

KO-23: Working well. [WH6I]

KO-25: Working well. WH6I reported in last week's KO-25 status report that number of new images can be found on KO-25 but since the wide angle images are in a new format that so far has not been decoded. Well since then he

reports that the QUIKDISP.EXE is available on KO-25's BBS for downloading. This is a program that will display the new wide angle views from KO-25. WH6I is in the processing downloading several earth image files. He says that the file KAIW0008 appears to be on the adriatic coast of the former Yugoslavia. [WH6I]

- A0-16: Working well. [WH6I]
- DO-17: ZR5JRS finds this to be an excellent satellite to monitor as he can receives DOVE with 599 signals when it is at an elevation of only 7 degrees. To date, however, he has not heard the digital voice. [ZRTJRS]
- UO-11: This satellite is working well with clear, readable RTTY. The digital voice also is received well from ZR5JRS's QTH. ZR5JRS observes that he has to wait until UO-11 is at lest 25 degrees above the horizon for him to receive a good copy on UO-11. He notes that this is in contrast to the other OSCAR satellites which he copies almost immediately after they rise above his horizon. His only theory about this is that perhaps UO-11 runs considerably less power than the other OSCARs. [ZR5JRS]
- MIR: Over the last 4 days, the MIR BBS has been switched off. This is possibly to prevent clashes with the STS-59 SAREX mission. However, before this, it was relatively easy to access the MIR BBS even using 2 watts of power at an elevation of 18 degrees with a "Slim Jim" antenna. There have been no reports of voice contacts in South Africa that ZS5JRS is aware of over the last 14 months.

 [ZR5JRS @ ZR5GQ.NTL.ZAF.AF]
- RS-10/11: Of all the OSCAR satellites, this satellite is ZR5JRS's favorite one to work. His station consists of a 10W Yaesu FT-480R with a "Slim Jim" antenna for the uplink, and an old Yaesu FTDX 400 with a long wire antenna for the downlink. From his QTH in Durban, grid square KG59MG, he can work stations in Cape Town, which is about 1300 KM away and stations Johannesburg which is about 500 KM away at the same time for about 3 to 4 minutes. JR5JRS has also found that the downlink is about half as strong as the beacon signal. He also uses the beacon signal to gauge conditions on the 10M band, sometimes hearing the beacon up to 10 minutes after the satellite has gone below the horizon!

 [ZR5JRS @ ZR5GQ.NTL.ZAF.AF]

The AMSAT NEWS Service (ANS) is looking for volunteers to contribute weekly OSCAR status reports. If you have a favorite OSCAR which you work on a regular basis and would like to contribute to this bulletin, please send your observations to WDOHHU at his CompuServe address of 70524,2272, on INTERNET at wd0hhu@amsat.org, or to his local packet BBS in the Denver, CO

area, WDOHHU @ WOLJF.#NECO.CO.USA.NOAM. Also, if you find that the current set of orbital elements are not generating the correct AOS/LOS times at your QTH, PLEASE INCLUDE THAT INFORMATION AS WELL. The information you provide will be of value to all OSCAR enthusiasts.

/EX

Date: Sat, 23 Apr 1994 02:36:36 GMT

From: ihnp4.ucsd.edu!sdd.hp.com!col.hp.com!csn!cns!rickvg@network.ucsd.edu

Subject: High Altitude Balloon Flight in Denver Postponed

To: ham-space@ucsd.edu

Forwarded from Ground Station Ops of EOSS:

The flight of EOSS 16 has been delayed until May 1, 1994.

Due to technical difficulties with the Ozone detection experiment being conducted by Ranum High School, one week is needed to work out the problems.

All payload frequencies will remain the same.

Here is the updated fact sheet.

FLIGHT PROFILE FOR EOSS 16

LAUNCH DATE: May 1, 1994

LAUNCH SITE: Thunder Ridge Middle School

Picadilly and Smokey Hill Rd.

Aurora, Colorado, USA

LAUNCH SITE COORDINATES: 39.62305 deg North

104.73544 deg West

LAUNCH TIME : 9:00 a.m.

FLIGHT EXPERIMENT: Ozone detection at various levels of the atmosphere

EXPERIMENT CONDUCTED BY: Ranum High School, Longmont Colorado.

PROJECT INTEGRATOR: Andy Kellett/ NOSIS SECONDARY EXPERIMENT: Testing of the APRS.

(Automatic Position Reporting System)

FREQUENCIES:

Shuttle I:

Telemetry 144.340 MHz Beacon 147.555 ATV 426.250

HF Net:

7230khz Phone + or - QRM

Foxhunters:

CRA Repeaters 147.225 MHz

PURPOSE OF THE FLIGHT:

There are several experiments that are going to be run on the flight of EOSS 16.

- 1. The primary experiment will be the detection of Ozone at various altitudes above Colorado. This experiment will be conducted by Random High School. The students are interested in the Ozone concentration and may do a follow up flight to see if the levels have changed. They will be graphing the results and presenting them to the school science fair.
- 2. The second experiment will be the use of APRS (Automatic Position Reporting System). The controller will be sending down text strings that will include latitude and longitude in them which should plot the position of the payload on any APRS equipped packet station within the footprint of the balloon as the payload travels the skies of Colorado. The typical footprint extends to ALL neighboring states. So, if you are in southern Wyoming, south western Nebraska, western Kansas, western Oklahoma, northern Texas, parts of New Mexico and Arizona and Eastern Utah, look into tracking the progress of EOSS-16 with APRS. Of interest, noting the difference between Loran-C, which is used on Shuttle I, and GPS, which is used on Shuttle II.

In the Denver Metro Area check on my BBS, NOVSA-1 and find out where to get the APRS program.

 -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
 _	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Date: 23 Apr 1994 14:56:31 -0700

From: dont-send-mail-to-path-lines@ames.arpa

Subject: Navstar GPS Constellation Status (94-04-23)

To: ham-space@ucsd.edu

Navstar GPS Constellation Status (94-04-23)

Blk II Seq	C//N	PRN Code	Internat. ID				Clock	Available/Decommissioned
•								
Block								
	01		1978-020A	10684		78-02-22		78-03-29 85-07-17
	02	07	1978-047A	10893		78-05-13		78-07-14 81-07-16
	03	06 00	1978-093A	11054		78-10-06		78-11-13 92-05-18
	04	08	1978-112A	11141		78-12-10		79-01-08 89-10-14
	05	05 00	1980-011A	11690		80-02-09		80-02-27 83-11-28
	06 07	09	1980-032A	11783		80-04-26 81-12-18		80-05-16 91-03-06 Launch failure
	08	11	1983-072A	14189		83-07-14		83-08-10 93-05-04
	09	13	1984-059A	15039	C-1	84-06-13		84-07-19
	10	12	1984-097A	15271	A-1	84-09-08		84-10-03
	11	03	1985-093A	16129	A 1	85-10-09		85-10-30 94-04-13
		03	1703 075A	10127		03 10 07		03 10 30
Block	< II							
II-1	14	14	1989-013A	19802	E-1	89-02-14	Cs	89-04-15 05:02 UT
II-2	13	02	1989-044A	20061	B-3	89-06-10	Cs	89-08-10 20:46 UT
II-3	16	16	1989-064A	20185	E-3	89-08-18	Cs	89-10-14 20:21 UT
II-4	19	19	1989-085A	20302	A-4	89-10-21	Cs	89-11-23 03:13 UT
II-5	17	17	1989-097A	20361	D-3	89-12-11	Cs	90-01-06 03:30 UT
II-6	18	18	1990-008A	20452	F-3	90-01-24	Cs	90-02-14 22:26 UT
II-7	20	20	1990-025A	20533	B-2	90-03-26	Cs	90-04-18 23:13 UT
II-8	21	21	1990-068A	20724	E-2	90-08-02	Cs	90-08-22 15:00 UT
II-9	15	15	1990-088A	20830	D-2	90-10-01	Cs	90-10-15 00:39 UT
57 .		_						
Block			4000 4004	00050	- 4	00 44 06	0	00 40 40 00 45 UT
II-10			1990-103A	20959	E-4	90-11-26	Cs	90-12-10 23:45 UT
II-11			1991-047A	21552	D-1	91-07-04 92-02-23		91-08-30 04:44 UT 92-03-24 11:00 UT
II-12		25 28	1992-009A	21890	A-2		Cs	92-03-24 11:00 UT 92-04-25 20:32 UT
II-13 II-14		26 26	1992-019A 1992-039A	21930 22014	C-2 F-2	92-04-10 92-07-07	Cs Cs	92-04-25 20:32 UT 92-07-23 19:43 UT
II-12			1992-059A 1992-058A	22108	A-3	92-07-07	Cs	92-09-30 20:08 UT
II-16		27 01	1992-036A 1992-079A	22231	F-1	92-09-09	Cs	92-12-11 14:49 UT
II-17			1992-079A	22275	F-4	92-11-22	Cs	93-01-05 16:39 UT
II-18		22	1993-007A	22446	B-1	93-02-03	Cs	93-04-04 05:20 UT
II-19		31	1993-017A	22581	C-3	93-03-30	Cs	93-04-13 20:53 UT
II-20		07	1993-032A	22657	C-4	93-05-13	Cs	93-06-12 16:15 UT
II-21			1993-042A	22700	A-1	93-06-26	Cs	93-07-20 12:54 UT
II-22		05	1993-054A	22779	B-4	93-08-30	Cs	93-09-28 19:29 UT
II-23			1993-068A	22877	D-4	93-10-26	Cs	93-11-22 18:20 UT
II-24		06	1994-016A	23027	C-1	94-03-10	Rb	94-03-28 14:20 UT
_			e launched				-	
			e launched					
			e launched					
	20	T - 1-				LOF		

30 To be launched on need in FY '95

Notes

- 1. NASA Catalog Number is also known as NORAD or U.S. Space Command object number.
- 2. No orbital plane position = satellite no longer operational.
- 3. Clock: Rb = Rubidium; Cs = Cesium
- 4. S/A had been enabled on Block II satellites during part of 1990; S/A off between about 10 August 1990 and 1 July 1991 due to Gulf crisis; standard level re-implemented on 15 November 1991. Currently, PRN15 and PRN20 appear to have little or no S/A imposed.
- 5. Anti-spoofing was activated on 94-01-31 at 00:00 UT on all Block II satellites. (ref. NANU 050-94042)
- 6. PRN number of SVN32 was changed from 32 to 01 on 93-01-28.
- 7. PRN03 was set unhealthy on 94-02-27 at 03:20 UT. It was unusable beginning at 02:33 UT on 94-02-27 and remained so until set permanently unusable on 94-04-13 beginning at 15:00 UT due to navigation payload shut down. (ref. NANU 083-94059 and NANU 129-94104)
- 8. The decommissioning date for PRN06/SVN03 is the date of termination of operations of this satellite (ref. USN0) and is about 3 weeks later than the date GPSIC gives for "deactivation".
- 9. The PRN06/SVN36 launch included the SEDS-2 tether experiment on the Delta II rocket body (object 23028, 1994-016B). The tether was broken by an impact on 94-03-15. The SEDS-2 end mass subsatellite and about half of the tether re-entered within a few orbits. About 11 km of tether remains attached to the Delta rocket which is still in orbit. (ref. Jonathan McDowell)
- 10. PRN13 was set unhealthy on 94-02-27 at 13:02 UT and will remain unusable until further notice due to "end of life testing." (ref. NANU 083-94059 and USNO). It is unlikely that PRN13 will return to service. (ref. USNO)
- 11. The degraded C/A-code performance of PRN19 was corrected effective 94-01-04 at 00:00 UT. (ref. NANU 343-93294, NANU 396-93337, and NANU 006-94010) The correction involved a switch to redundant systems on the satellite. (ref. Aviation Week & Space Technology)

Richard B. Langley Internet: LANG@UNB.CA or SE@UNB.CA

Geodetic Research Laboratory BITnet: LANG@UNB or SE@UNB

Dept. of Geodesy and Geomatics Engineering Phone: (506) 453-5142 University of New Brunswick FAX: (506) 453-4943

Fredericton, N.B., Canada E3B 5A3 Telex: 014-46202

Date: 23 Apr 1994 23:41:22 GMT

From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!news.intercon.com!panix! zip.eecs.umich.edu!newsxfer.itd.umich.edu!news1.oakland.edu!vela.acs.oakland.edu! prvalko@network.ucsd.edu

Subject: Satellites without beams

To: ham-space@ucsd.edu

I routinely access RS-10/11 with 10W and a Diamond X-200 vertical.

29MHz rcv is a dipole.

73 = paul = wb8zjl

Date: Mon, 25 Apr 1994 07:25:24 GMT

From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!pipex!bbc!ant!

boyer@network.ucsd.edu Subject: Weather Sat freqs. To: ham-space@ucsd.edu

I am trying to put together a list of frequencies for the low orbit weather satelites. Such as NOAA Meteosat etc. If anyone has freqs please post them to me and I will compile a 'definitive list' and post it on the net. It might also be an idea to state what mode (apt or hrpt) is transmitted on any frequencies listed.

John B

John.boyer@rd.eng.bbc.co.uk

Date: 24 Apr 1994 08:06:43 -0700

From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!wupost!udel!

news2.sprintlink.net!news.sprintlink.net!connected.com!connected.com!not-for-

mail@network.ucsd.edu
To: ham-space@ucsd.edu

References <paulf.767130549@abercrombie.Stanford.EDU>, <2pc1d8\$qmk@ccnet.ccnet.com>, <paulf.767164384@abercrombie.stanford.edu>r-Subject : Re: rec.radio.amateur.vhf.plus (?)

Since the VHF list out of Stanford is now up as a LISTSERV consider this a dead issue IMHO...I'm not going to do anthing else with it

Ralph Lindberg N7BSN

Date: (null) From: (null)

THE LATEST APRS is posted on 410-280-2503 BBS. After version 3.11 I will also always post a file similar to: 400to401.zip which will contain only the files that changed in the lastest release.

Anyone interested is welcome to come to the launch site and experince what a EOSS flight is like. We will have the ground station computer set up and also have TV monitors set up so you can see the flight from the perspective of the payload's onboard B&W tv camera. After the payload has been launched there will plenty of people around to answer any questions that you may have.

Hope to see you there!! NOVSA@WOGVT#NECO.CO.NOAM brian.thomas@filebank.com

73 -- Rick

* Rick von Glahn

Edge of Space Sciences, Inc.

* rickvg@cscns.com - Internet (preferred) Promoting Science and Education *

* 74620,637 - Compuserve

through Amateur Radio and

* NOKKZ@WOGVT.#NECO.CO.USA - packet radio High Altitude Balloons

End of Ham-Space Digest V94 #105 ********